

Jackson Hole Fire/EMS Operations Manual

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Title:

Medication Protocol:

Albuterol

Division: 17

Article:

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Pages:

ALBUTEROL (Medication Protocol)

EMT PROVIDERS

EMT MAY ASSIST PATIENTS WITH THEIR METER DOSE INHALERS UNDER THE **FOLLOWING CIRCUMSTANCES:**

- The medication is prescribe to the patient
- The medication is not expired
- The patient has symptoms that indicate the use of this medication and there are no contraindications
- The patient has not exceeded dose and the EMT will deliver the proper dose via the proper
- YOU HAVE RECEIVED VOICE AUTHORIZATION AS STATED BELOW

ADVANCED EMT/EMT-INTERMEDIATE PROVIDERS

STANDING ORDER FOR FIRST TREATMENT

PARAMEDIC PROVIDERS

STANDING ORDER

CLASS: Sympathomimetic, bronchodilator, β_2 -agonist

PHARMACOLOGY/

ACTIONS:

Albuterol is a sympathomimetic that is selective for β 2-adrenergic

receptors. It relaxes smooth muscles of the bronchial tree and peripheral

vasculature by stimulating adrenergic receptors of the sympathetic nervous

system.

ONSET/DURATION: Onset: 5 - 15 min / Duration: 3 - 4 hrs

USE IN FIELD/

Relief of bronchospasm in patients with reversible obstructive airway

INDICATIONS:

disease

CONTRAINDICATIONS: Hypersensitivity, cardiac dysrhythmias associated with tachycardia

SIDE EFFECTS:

Restlessness, apprehension, dizziness, palpitations, tachycardia,

dysrhythmias

DRUG INTERACTIONS:

Other sympathomimetics may exacerbate adverse cardio vascular effects. Antidepressants may potentiate effects on the vasculature (vasodilation). β-

blockers may antagonize albuterol. May potentiate diuretic-induced

hypokalemia

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ROUTE: Inhalation

DOSAGE: ADULT

MDI: 1-2 inhalations (90-180 mcg) q 4-5 hr; max 12 inhalations/day. Use spacer if available.

Nebulizer: 2.5 mg (0.5 mL of 0.5% solution) diluted to 3 mL with 0.9% NS (0.083% solution); administer over 5-15 min; may be repeated q 20 min X 3

Note: In setting of severe asthma exacerbations, 4 inhalations or continuous nebulized Albuterol may be indicated.

PEDIATRIC (<45 kg)

MDI: 1-2 inhalations (90-180 mcg) q 4-5 hr; max 12 inhalations/day. Mask and

spacer may be used.

Nebulizer: 2.5 mg (0.5 mL of 0.5% solution) diluted to 3 mL with 0.9% NS (0.083% solution); administer over 5-15 min; may be repeated q 20 min X 3

Note: In setting of severe asthma exacerbations, 4 inhalations or continuous nebulized Albuterol may be indicated.

PREGNANCY SAFETY: Category C – give only if potential benefits justifies risk to fetus

COMMENTS: Consider use in combination with Ipratropium (Atrovent).

May precipitate angina pectoris and dysrhythmias.

Use caution in patients with diabetes mellitus, hyperthyroidism, prostatic

hypertrophy, seizure disorder, or cardiovascular disorders.

Spacer use is desirable with metered-dose inhalers as it will increase drug

delivery.